

CLAIMS

What is claimed is:

1. A system, comprising:

a hand-held device having a display; and

5 a consumer appliance having an application for reading closed captioning information from a video signal;

wherein the hand-held device and the consumer appliance are adapted to communicate such that the consumer appliance can transmit signals indicative of the closed captioning information to the hand-held device and the hand-held device can
10 display a representation of the closed captioning information in the display.

2. The system as recited in claim 1, wherein the hand-held device comprises a memory for storing the closed captioning information and a program for replaying the stored closed captioning information.

15 3. The system as recited in claim 1, wherein the closed captioning information is formatted using a mark-up language and the hand-held device comprises a browser application for displaying the closed captioning information in the display.

20 4. The system as recited in claim 1, wherein the hand-held device comprises a remote-control having a memory in which is stored command codes for commanding the operation of a plurality of different consumer appliances.

5. A system, comprising:

a hand-held device having a display; and

a karaoke device having an application for reading song lyrics from a recorded media;

5 wherein the hand-held device and the karaoke device are adapted to communicate such that the karaoke device can transmit signals indicative of the song lyrics to the hand-held device and the hand-held device can display a representation of the song-lyrics in the display.

10 6. A system, comprising:

a hand-held device having a display; and

a consumer appliance having an application for reading movie sub-titles from a recorded media;

15 wherein the hand-held device and the consumer appliance are adapted to communicate such that the consumer appliance can transmit signals indicative of the movie sub-titles to the hand-held device and the hand-held device can display a representation of the movie sub-titles in the display

7. The system as recited in claim 6, wherein the recorded media is a digital video disc.

20 8. A system, comprising:

a consumer appliance for playing a media; and

a hand-held device having a display and an associated memory storing a readable representation of an audio track of the media adapted to display the readable representation of the audio track as the consumer appliance plays the media.

5 9. The system as recited in claim 8, wherein the media is a video program and the representation of the audio track comprises sub-titles.

10. The system as recited in claim 9, wherein the consumer appliance is a digital video disc player.

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11. The system as recited in claim 8, wherein the media is a compact disc and the representation of the audio track comprises song lyrics.

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12. The system as recited in claim 8, wherein the media is an audio broadcast and the consumer appliance is a radio receiver.

13. The system as recited in claim 8, further comprising a Web site from which the representation of the audio track is downloadable into the memory.

20 14. The system as recited in claim 8, further comprising a kiosk from which the representation of the audio track is downloadable into the memory.

15. The system as recited in claim 8, wherein the memory comprises a removable smart card.

16. In a consumer appliance, a method for displaying closed captioning information,

5 comprising:

extracting the closed captioning information from a video signal;

loading the extracted closed captioning information into a mark-up language page; and

transmitting the mark-up language page to a device having a display.

10 17. The method as recited in claim 16, further comprising the step of storing the extracted closed captioning information in memory and the steps of loading and transmitting are performed on a periodic basis.

15 18. The method as recited in claim 16, wherein the steps of loading and transmitting are performed in response to a request received from the device having the display.

19. In a hand-held device having a display operable in connection with a consumer appliance having an application for reading closed captioning information from a video
20 signal, a method for displaying information related to a viewed program, comprising:

transmitting to the consumer appliance a request to receive information indicative of the closed captioning information; and

displaying received information indicative of the closed captioning information in the display.

20. The method as recited in claim 19, wherein the hand-held device comprises a browser application for displaying a mark-up language page received from the consumer appliance in which is placed the closed captioning information.

21. The method as recited in claim 19, further comprising the step of periodically requesting the consumer appliance to transmit the closed captioning information.

22. The method as recited in claim 19, further comprising the step of storing the closed captioning information and the step of displaying is performed in response to activation of a key associated with the hand-held device.

23. A readable media having instructions for displaying closed captioning information, the instructions performing steps comprising:

extracting the closed captioning information from a video signal;

loading the extracted closed captioning information into a mark-up language page; and

transmitting the mark-up language page to a device having a display.

24. The readable media as recited in claim 23, wherein the instructions perform the further step comprising storing the extracted closed captioning information in memory and wherein the steps of loading and transmitting are performed on a periodic basis.

5 25. The readable media as recited in claim 24, wherein the steps of loading and transmitting are performed in response to a request received from the device having the display.

10 26. A readable media having instructions for displaying information related to a viewed program, comprising:
transmitting to a consumer appliance a request to receive information indicative of closed captioning information; and
displaying received information indicative of the closed captioning information in a display of a hand-held device.

15 27. The readable media as recited in claim 26, wherein the hand-held device comprises a browser application for displaying a mark-up language page received from the consumer appliance in which is placed the closed captioning information.

20 28. The readable media as recited in claim 27, wherein the instructions further perform the step of periodically requesting the consumer appliance to transmit the closed captioning information.

29. The readable media as recited in claim 27, wherein the instructions further perform the step of storing the closed captioning information and wherein the step of displaying is performed in response to activation of a key associated with the hand-held device.

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